

Title (en)

Transmitter, transmission method, receiver, reception method, program, and integrated circuit

Title (de)

Sender, Sendeverfahren, Empfänger, Empfangsverfahren, Programm und integrierte Schaltung

Title (fr)

Émetteur, procédé de transmission, récepteur, procédé de réception, programme et circuit intégré

Publication

EP 2809020 A2 20141203 (EN)

Application

EP 14179986 A 20101222

Priority

- JP 2010004656 A 20100113
- EP 10843006 A 20101222

Abstract (en)

A transmitter 100 includes an L1 signaling data coder 111. In the L1 signaling data coder 111, an L1 signaling data generator 1021 converts transmission parameters into L1-pre signaling data and L1-post signaling data and outputs the L1-pre signaling data and the L1-post signaling data, an energy dispersion unit 121 performs energy dispersion on the L1-pre signaling data and the L1-post signaling data in order, and an L1 error correction coder 1022 performs error correction coding, based on BCH coding and LDPC coding, on the energy-dispersed L1-pre signaling data. This allows for randomization of a large bias in mapping data of the L1-pre signaling data and the L1-post signaling data, thus solving the problem of concentration of power in a specific sample within P2 symbols.

IPC 8 full level

H04J 11/00 (2006.01); **H04L 1/00** (2006.01); **H04L 25/03** (2006.01); **H04L 27/26** (2006.01)

CPC (source: CN EP KR RU US)

H04L 1/0041 (2013.01 - KR); **H04L 1/0045** (2013.01 - KR); **H04L 1/0051** (2013.01 - RU); **H04L 1/0057** (2013.01 - CN EP KR RU US); **H04L 1/0071** (2013.01 - CN EP RU US); **H04L 25/03866** (2013.01 - CN EP KR RU US); **H04L 27/2615** (2013.01 - CN EP US); **H04L 27/2626** (2013.01 - KR); **H04L 27/2647** (2013.01 - KR); **H04L 27/2613** (2013.01 - CN EP RU US); **H04L 27/2626** (2013.01 - CN EP RU US); **H04L 27/2647** (2013.01 - CN EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2515458 A1 20121024; **EP 2515458 A4 20121121**; **EP 2515458 B1 20150211**; AU 2010342184 A1 20120719; AU 2010342184 B2 20140227; AU 2014202827 A1 20140619; AU 2014202827 B2 20150430; AU 2014202829 A1 20140619; AU 2014202829 B2 20160310; CN 102714560 A 20121003; CN 102714560 B 20150325; CN 104618065 A 20150513; CN 104618065 B 20180223; CN 104618066 A 20150513; CN 104618066 B 20180223; EP 2809020 A2 20141203; EP 2809020 A3 20150415; EP 2809020 B1 20160914; EP 2809021 A2 20141203; EP 2809021 A3 20150415; EP 2809021 B1 20160831; EP 3089387 A1 20161102; EP 3089387 B1 20181017; EP 3429101 A1 20190116; EP 3429101 B1 20200401; ES 2535450 T3 20150511; ES 2605503 T3 20170314; ES 2607683 T3 20170403; ES 2706483 T3 20190329; ES 2802297 T3 20210118; JP 2013176155 A 20130905; JP 2013192249 A 20130926; JP 5275478 B2 20130828; JP 5540136 B2 20140702; JP 5540137 B2 20140702; JP WO2011086647 A1 20130516; KR 101430327 B1 20140813; KR 20120101480 A 20120913; MY 156993 A 20160415; MY 175406 A 20200624; MY 176824 A 20200824; RU 2012129347 A 20140220; RU 2014134363 A 20160320; RU 2014134364 A 20160320; RU 2532418 C2 20141110; RU 2599047 C2 20161010; RU 2599050 C2 20161010; US 2012288029 A1 20121115; US 8953695 B2 20150210; WO 2011086647 A1 20110721

DOCDB simple family (application)

EP 10843006 A 20101222; AU 2010342184 A 20101222; AU 2014202827 A 20140523; AU 2014202829 A 20140523; CN 201080061280 A 20101222; CN 201510083595 A 20101222; CN 201510083657 A 20101222; EP 14179986 A 20101222; EP 14179987 A 20101222; EP 16174617 A 20101222; EP 18189774 A 20101222; ES 10843006 T 20101222; ES 14179986 T 20101222; ES 14179987 T 20101222; ES 16174617 T 20101222; ES 18189774 T 20101222; JP 2010007458 W 20101222; JP 2011549773 A 20101222; JP 2013101938 A 20130514; JP 2013101939 A 20130514; KR 20127016922 A 20101222; MY PI2012002644 A 20101222; MY PI2015001834 A 20101222; MY PI2015001835 A 20101222; RU 2012129347 A 20101222; RU 2014134363 A 20140821; RU 2014134364 A 20140821; US 201013519453 A 20101222